

FIG.1

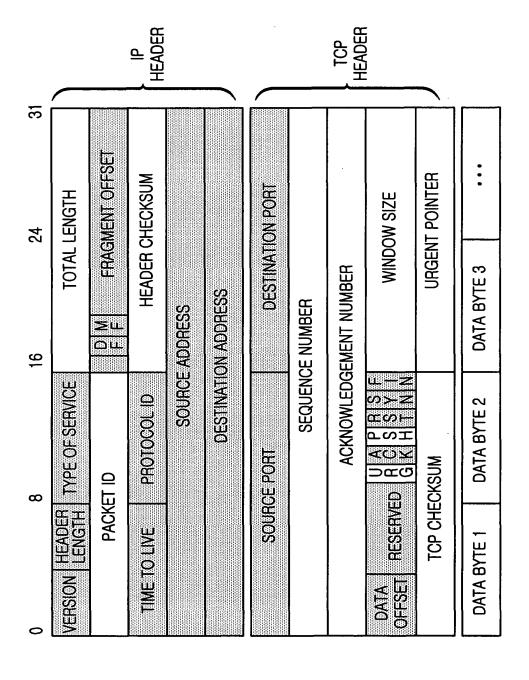


FIG.2

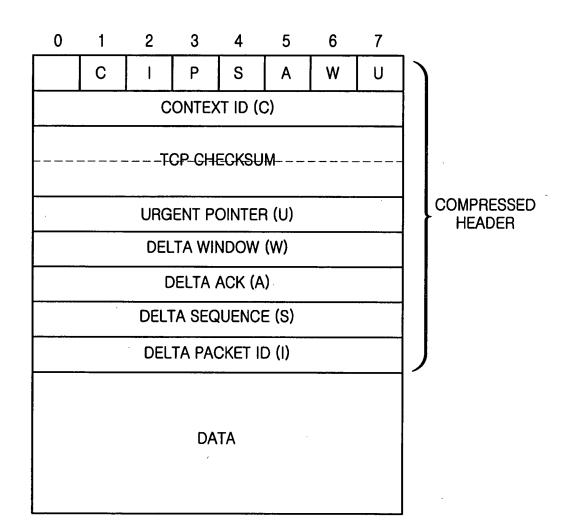
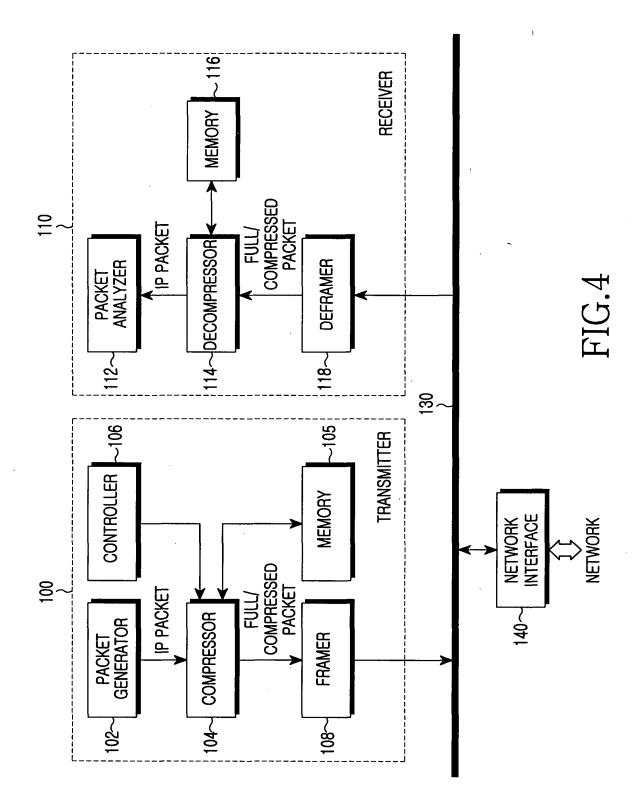


FIG.3



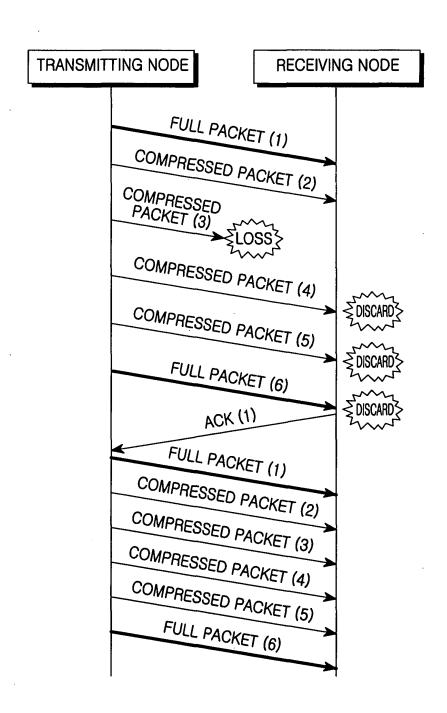


FIG.5

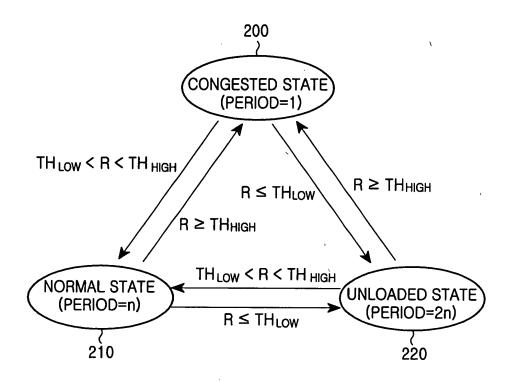


FIG.6

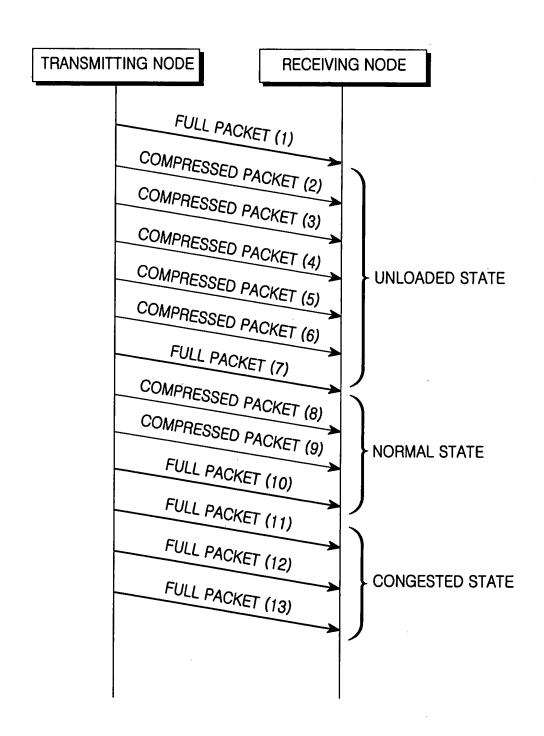


FIG.7

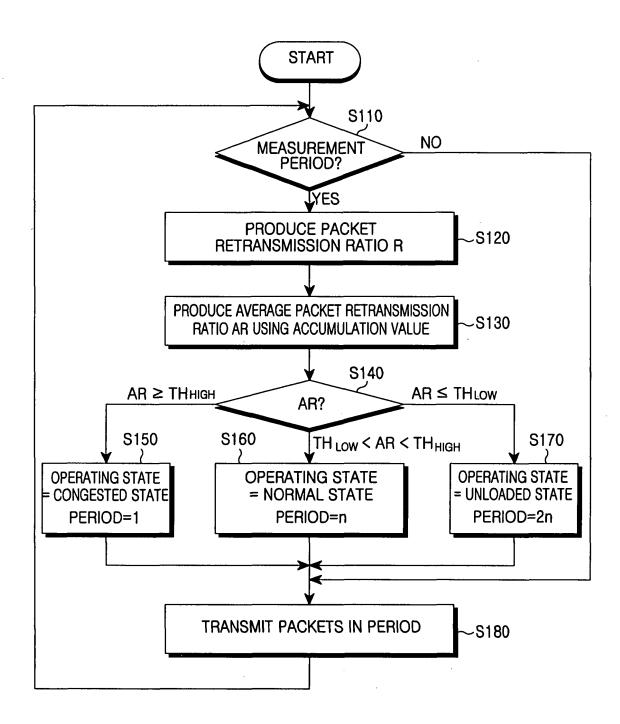


FIG.8

```
#define ALPHA 0.75
     #define TH<sub>HIGH</sub> 0.10
     #define TH<sub>LOW</sub> 0.05
     // PRODUCE PACKET RETRANSMISSION RATIO (NUMBER OF RETRANSMITTED
       PACKETS/NUMBER OF TRANSMITTED PACKETS) EVERY 5 SECONDS.
(S120) R = RetransPkts / SentPkts;
     // PRODUCE AVERAGE PACKET RETRANSMISSION RATIO USING
       LOW-PASS-FILTER FORMULA.
(S130) AR = (1-ALPHA)*AR
           +ALPHA * R;
     // CLASSIFY THREE OPERATING STATES ACCORDING TO PACKET
       RETRANSMISSION RATIO, AND DECIDE WHEN FULL PACKET MUST BE
       TRANSMITTED ACCORDING TO EACH OPERATING STATE
      if (AR >= TH_{HIGH}) {
          State = Congested;
(S150)
          Period = 1;
        } else if (AvgRetransRate <= TH<sub>LOW</sub>) {
(S170)
          State =unloaded;
          Period = 2n;
        } else
          State = Loaded;
(S160)
          Period =n;
     // TRANSMIT FULL PACKET IN PERIOD.
(S180) for (i=1; i<=Period; i++) {
          if (i == Period)
             send full packets;
          else
             send compressed packets;
        }
```